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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/938,387	08/23/2001	Charles P. Norman	ST00015US2 2456		ST00015US2 2456	
34408 THE ECLIPSE	7590 03/14/2007 GROUP		EXAMINER			
10605 BALBOA BLVD., SUITE 300			PHU, PHUONG M			
GRANADA HILLS, CA 91344			ART UNIT	PAPER NUMBER		
			2611			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE			
3 MO	NTHS	03/14/2007	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1)⊠ Responsive to communication(s) filed on 19 January 2007. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)⊠ Claim(s) 5-7 is/are allowed. 6)□ Claim(s) 5-1 is/are rejected. 7)□ Claim(s) 1 is/are rejected. 7)□ Claim(s) 2-4 and 8-10 is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in Application No See the attached detailed Office action for a list of the certified copies not received.			Application N	lo. A	Applicant(s)				
Prior Prior	Office Action Summary		09/938,387	09/938,387 NORMAN, CHARLES P		RLES P.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensives for ever many be available under the provision of 37 CRT 1-13(i), in no event, however, may a regly be threely filed. If NO period for regly is specified above, the maximum statutory period will apply and will expire 31X (8) MONTHS from the mailing date of this communication. Failur to injury which the sid or secreted period for regly is specified above, the maximum statutory period will apply and will expire 31X (8) MONTHS from the mailing date of this communication. Failur to injury which the sid or secreted period for injury all by allance, cause the application to become ABANDONED 13 U.S. C. § 133. Status **Status** **Status** **Status** **Status** **Status** **In Responsive to communication(s) filed on 19 January 2007. **2a This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4 Claim(s) 1-10 is/are pending in the application. 4 Claim(s) 1-10 is/are pending in the application. 4 Claim(s) 2-1 is/are allowed. 5 Claim(s) 1-10 is/are pending in the application. 4 Claim(s) 2-1 is/are allowed. 5 Claim(s) 1-10 is/are pending in the application. 4 Claim(s) 2-1 is/are allowed. 5 Claim(s) 1-10 is/are pending in the application and/or election requirement. **Application Papers** 9 The specification is objected to by the Examiner. 10 The drawing(s) filed on is/are: a) accepted or b)			Examiner	<u> </u>	rt Unit				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - and SIX (6) MONTHS from the mailing date of this communication if No period for reply is specified above, he maintering the street of the period			, -						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of the may be available under the provision of 37 CFR 1.1360, hin overth. Nover., may a reply be timely fitted after 50x (6) MONTHS from the mailing date of this communication. Failute or reply within the set or exceeded period for review like 1 years and the poly and will expire 30x (6) MONTHS from the mailing date of this communication. Failute or reply within the set or centered period for review like 1 years are pagelication become ABANDENDED. 33 U. S. £ 133. Any reply received by the Diffect later than three months after the mailing date of this communication. even if timely filled, may reduce any seater plantle time adjustment. Set 37 CFR 1.794b). Status 1) □ Responsive to communication(s) filled on 19 January 2007. 2a) □ This action is FINAL 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.10 (s/are pending in the application. 4) □ Claim(s) 1.12 (s/are pending in the application. 4) □ Claim(s) 5.7 is/are allowed. 6) □ Claim(s) 5.7 is/are allowed. 6) □ Claim(s) 2.4 ang 8.10 is/are objected to. 8) □ Claim(s) 2.4 ang 8.10 is/are objected to. 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The eath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ Cepties of the certified copies of the priority docume	Period fo		tion appears on the co	ver sheet with the cor	respondence ad	ddress			
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DETAILED ACTION

1. This Office Action is responsive to the RCE and Amendment filed on 1/19/07. Accordingly, claims 1-10 are currently pending.

Double Patenting

2. Applicant is advised that should claims 2-4 be found allowable, claims 8-10, respectively, will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k). It appears that in claim 8, the limitation "The receiver of claim 1" should be "the receiver of claim 5--.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Barnard (5,241,561), previously cited.
- -Regarding to claim 1, see figure 3, and col. 5, line 47 to col. 6, line 61, Barnard disclose a system comprising:
- a first mixer (24, 26) for removing a carrier component of an input signal (outputted from element (21)) (referred to the limitation "the GPS signal") to form a carrier removed signal in such a way that the first mixer comprises device (26) as a low pass filter for passing only the

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lowest, difference frequency component of products of mixing (via device (24)) the input signal with a local oscillator signal (22), and suppressing or removing others of higher frequency (inherently including the carrier component of the input signal) (see col. 6, line 67 to col. 6, line 2), (and it is explained as follows. In Barnard, the input signal is data with bandwidth of 2 MHz and transmitted on carrier frequency 1575.42 MHz (see col. 1, line 34 to col. 2, line 3), (in another word, it can be said that the input signal is within 1575.42 MHz ± 2 MHz), and further, the local oscillator signal can be the same or close to that of the input signal (see col. 5, lines 62-64); therefore for the case that the local oscillator signal is equal the carrier frequency of 1575.42 MHz, since a difference frequency component ((1575.42 MHz ± 2 MHz)- 1575.42 MHz) of the products of mixing is less than 2 MHz, namely, much less than the carrier frequency of 1575.42 MHz, and the low pass filter (26) for passing only the lowest, difference frequency component of the products of mixing, the carrier component 1575.42 MHz of the input signal is, therefore, inherently suppressed or removed by the low pass filter (26));

a second mixer (34) for receiving the carrier-removed signal at a first input port of the second mixer and separately receiving a frequency reference signal outputted from (32) at a second input port of the second mixer and outputting a resultant signal while further suppressing any remained leakage of the carrier frequency component (see col. 6, lines 14-18), (the received frequency reference signal outputted from (32) considered here equivalent with the limitation "a separately received frequency reference signal");

a comb filter (36), coupled to the second mixer, for filtering the resultant signal and obtaining a first output comprising filter lines; and (see col. 6, lines 18-24); and

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a frequency shifter (40, 42, 44) for shifting the filter lines in the first output to produce an output signal outputted from element (44) (referred to the limitation "a compressed GPS signal") (see col. 6, lines 24-44).

Allowable Subject Matter

- 5. Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 8-10 would be allowable if rewritten to overcome the objections, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. Claims 5-7 are allowed.

Response to Arguments

8. Applicant's arguments filed on 1/19/07 have been fully considered but they are not persuasive.

The applicant mainly argues that Barnard does not teach "a separated received frequency reference signal", as claimed in claim 1.

The examiner respectfully disagrees. Note that the rejection is based on the limitations recited in the claim. As explained above in this Office Action, Barnard discloses a second mixer (34) for receiving the carrier-removed signal at a first input port of the second mixer and separately receiving a frequency reference signal outputted from (32) at a second input port of the second mixer and outputting a resultant signal while further suppressing any remained leakage of the carrier frequency component (see col. 6, lines 14-18). The received frequency reference signal outputted from (32), being received at the second input port separately from the

first input port, is therefore considered here equivalent with the limitation "a separately received frequency reference signal"). Furthermore, claim 1 does not recite any other limitations for

further describing the "separately received frequency reference signal" in order to make it

distinguishable from Barnard's received frequency reference signal.

Based on the above rationale, it is believed that the limitations of the claim is still met and therefore, the rejection is still maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu

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Phung Phu Phuong Phu 02/28/07

PHUONG PHU PRIMARY EXAMINER Primary Examiner Art Unit 2611